

Title (en)

Aluminum-magnesium alloys in low resistance contacts to silicon coated with Si<sub>3</sub>N<sub>4</sub>.

Title (de)

Aluminium-Magnesium-Legierung in Kontakten auf von einer Si<sub>3</sub>N<sub>4</sub>-Schicht bedecktem Silizium mit niedrigem Kontaktwiderstand.

Title (fr)

Alliage aluminium-magnésium en contact à faible résistance avec du silicium recouvert d'une couche de Si<sub>3</sub>N<sub>4</sub>.

Publication

**EP 0052791 A1 19820602 (EN)**

Application

**EP 81109090 A 19811028**

Priority

US 21055380 A 19801126

Abstract (en)

[origin: US4347262A] An Al-Mg alloy is mixed with a Ni-Sb alloy or Al, in powder form, to form a thick-film metallizing paste useful for making low resistance electrically conductive contacts to a silicon solar cell coated with Si<sub>3</sub>N<sub>4</sub>.

IPC 1-7

**H01L 31/02**

IPC 8 full level

**H01L 31/04** (2006.01); **H01B 1/02** (2006.01); **H01B 1/16** (2006.01); **H01L 21/283** (2006.01); **H01L 31/0224** (2006.01)

CPC (source: EP US)

**H01L 21/283** (2013.01 - EP US); **H01L 31/022425** (2013.01 - EP US); **Y02E 10/50** (2013.01 - EP US)

Citation (search report)

- GB 1558764 A 19800109 - FERRANTI LTD
- Electronics International, Vol. 53, No. 20, September 11, 1980 New York (US) J. LYMAN: "Thick Film, Plating Cut Cost of Laying Down Solar Cell Contacts and Conductors" pages 40-41 \* page 41 \*

Cited by

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Designated contracting state (EPC)

BE DE FR GB IT LU NL

DOCDB simple family (publication)

**EP 0052791 A1 19820602**; **EP 0052791 B1 19840912**; CA 1168856 A 19840612; DE 3166071 D1 19841018; DK 523181 A 19820527; GR 76306 B 19840804; JP S57122582 A 19820730; JP S6244864 B2 19870922; US 4347262 A 19820831

DOCDB simple family (application)

**EP 81109090 A 19811028**; CA 390759 A 19811124; DE 3166071 T 19811028; DK 523181 A 19811125; GR 810166617 A 19811125; JP 18789881 A 19811125; US 21055380 A 19801126